HK900A/B SERIES POS SYSTEM

USER MANUAL

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Notes

☆It is required grounded well and the supply voltage shall be stable, and you must confirm that the voltage of the outlet provides shall be in line with the voltage marked on the label of the unit.

☆Be sure not to sprinkle liquid or fall any object into the unit.

☆Be sure not to keep heavy, strenuous movement, shake & heavy strike away from the POS.

☆Do not switch on or off the host frequently, because it is easy to result in damage on the machine.

☆Be sure not to unplug or plug in any live part or external device when they are in energized state, and the connecting cables of the POS between parts shall be connected securely.

☆Be sure neither to lengthen cable nor to replace parts at your will, if you have any demand, please contact with the reseller.

☆The unit shall be used under dry, ventilated & clean environment away from sunlight.

☆Avoid to making the air vent of the host machine blocked or covered

☆If any liquid sprinkles or any sundry falls into the unit, please shut it down immediately & switch off power supply, take batteries down, dry the liquid or remove the sundry. If you take the batteries down, you shall reset CMOS.

☆In case of safety fault, such as peculiar smell, abnormal sound, leakage and other faults, you must switch off the power supply at once and then contact with reseller.

☆When inserting USB flash or disk, you shall kill virus to prevent the host machine from virus.

☆The RJ11 port at the back of the host is connected with the cash drawer, as it is not a communication port, users shall not use the port for dial-up networking.

☆The product is a Level A one, it may cause radio interference in living environment. In such case, users may need to take practical & feasible measures against the interference.

☆When the POS is not in use, you shall switch off power supply and cover dust guard.

Warning:

1. Static may damage to the integrated circuit in the host machine.
2. If a replaced battery is not right, this may cause explosion or serious damage. Must replace the same type of batteries or similar ones recommended by the manufacturer

The manufacturer has the right to modify contents of the instruction book but without prior announcements!

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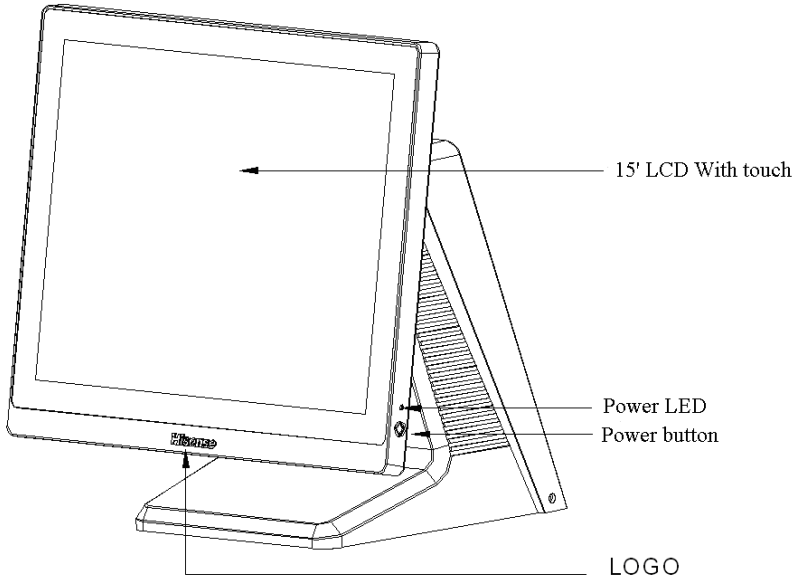
1. Packing List

a	System (with stand and cable cover)
b	Driver CD
c	Power adapter
d	Power cord

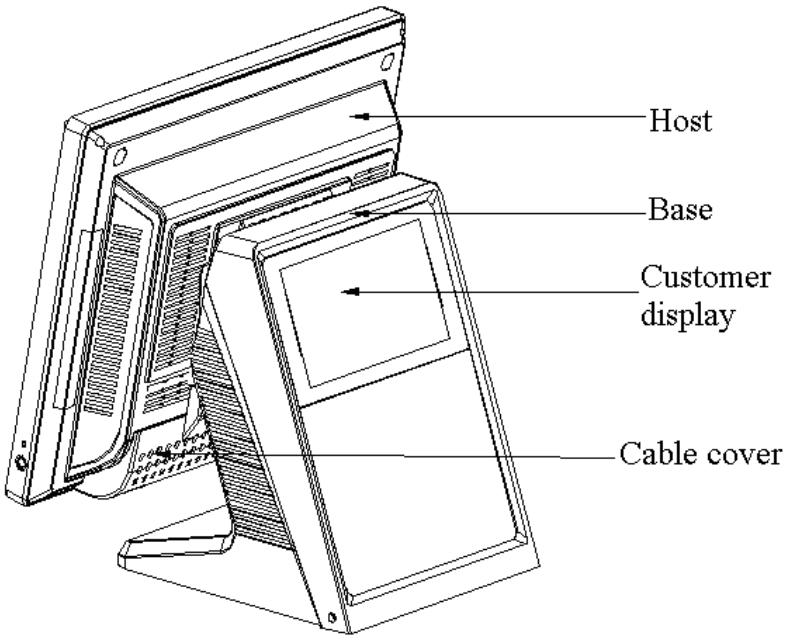
2. System View

2.1 System graphic model

【Front View】



【Back View】



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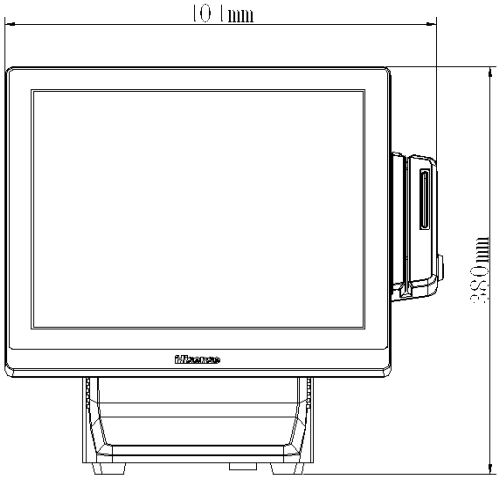
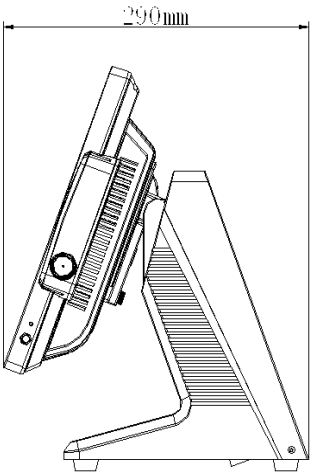
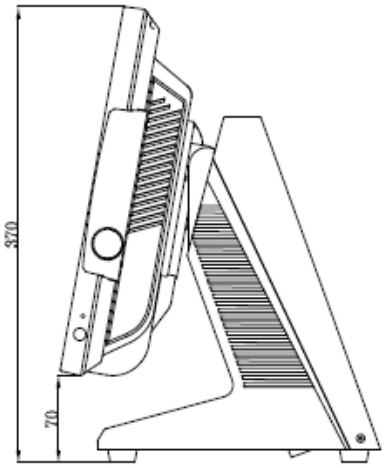
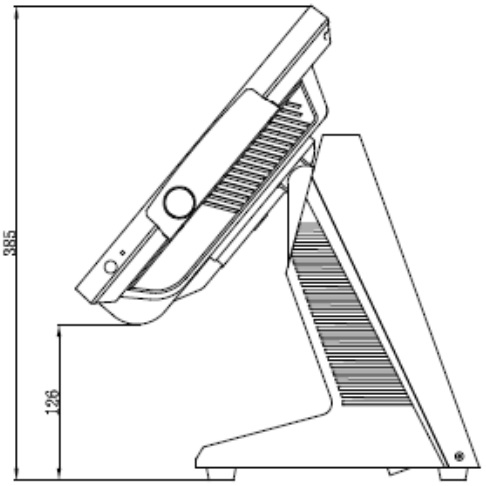
2.2 System Dimension





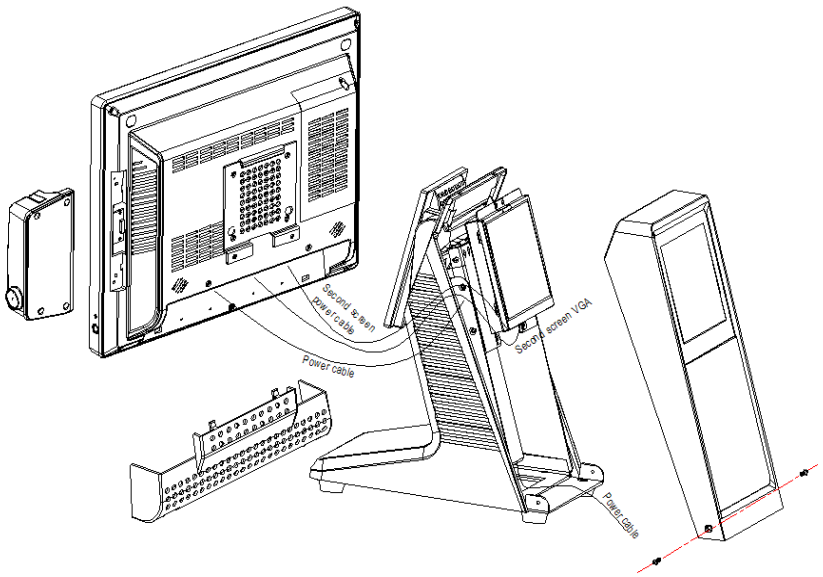
2.3System angular adjustment





3. System Assembly

3.1 System assembly drawing



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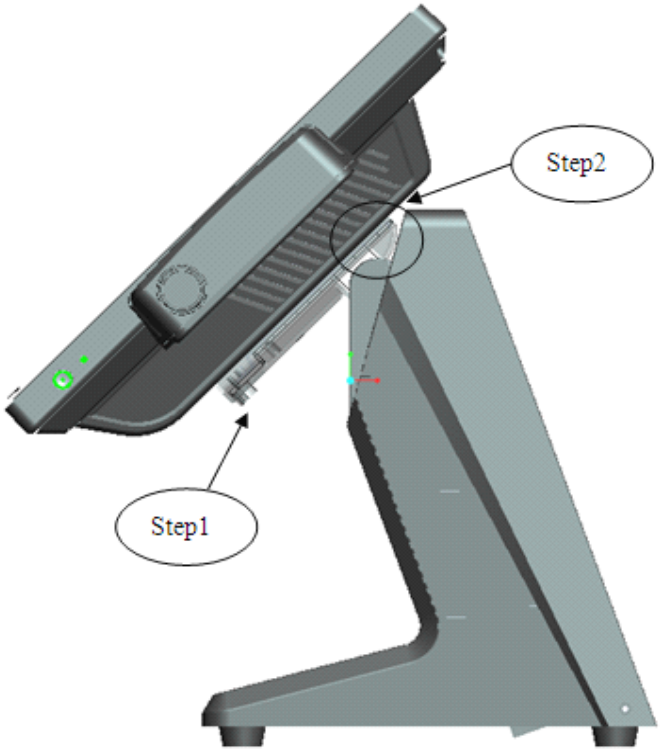
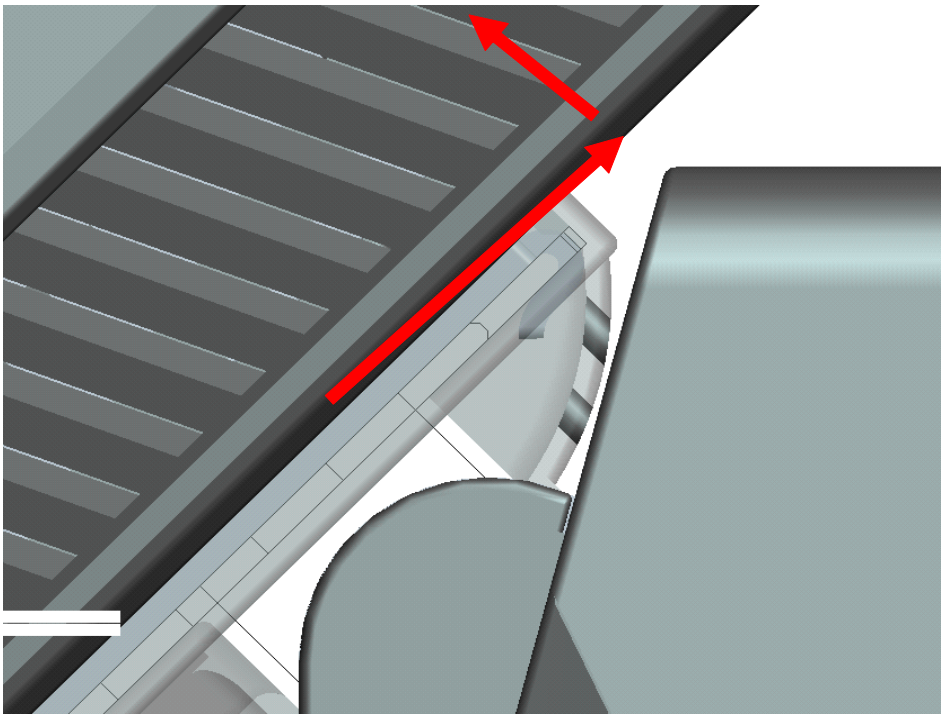
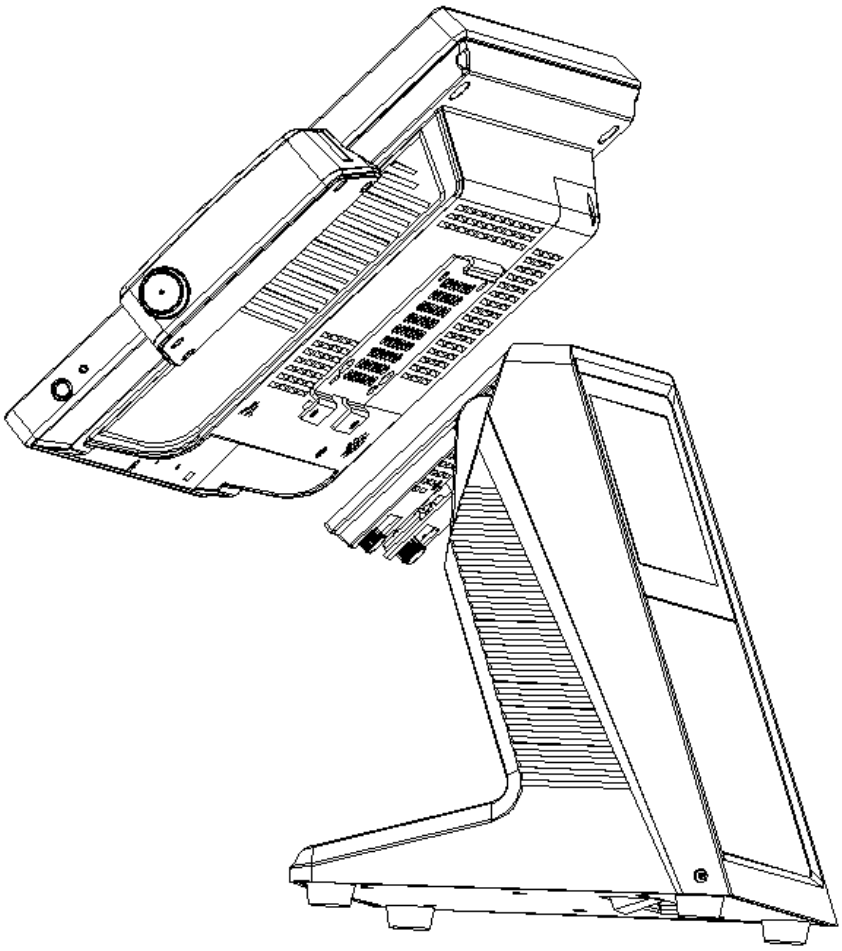
3.2 host machine Replacement

Step1: unscrew the hand screw



Step2: host machine move along the arrow, then separate the host machine and base.

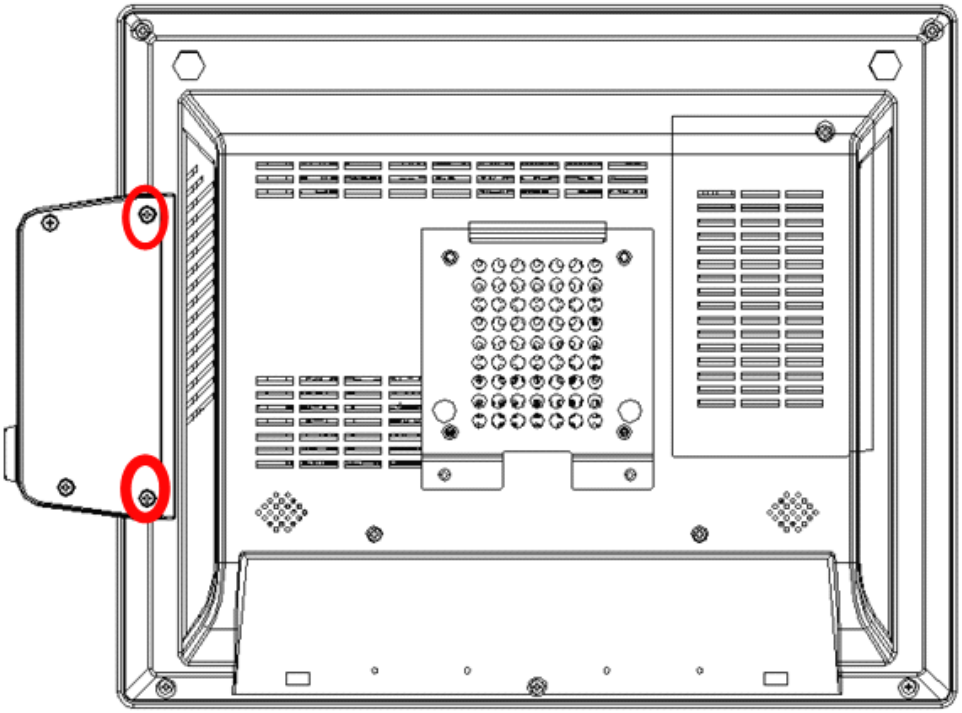




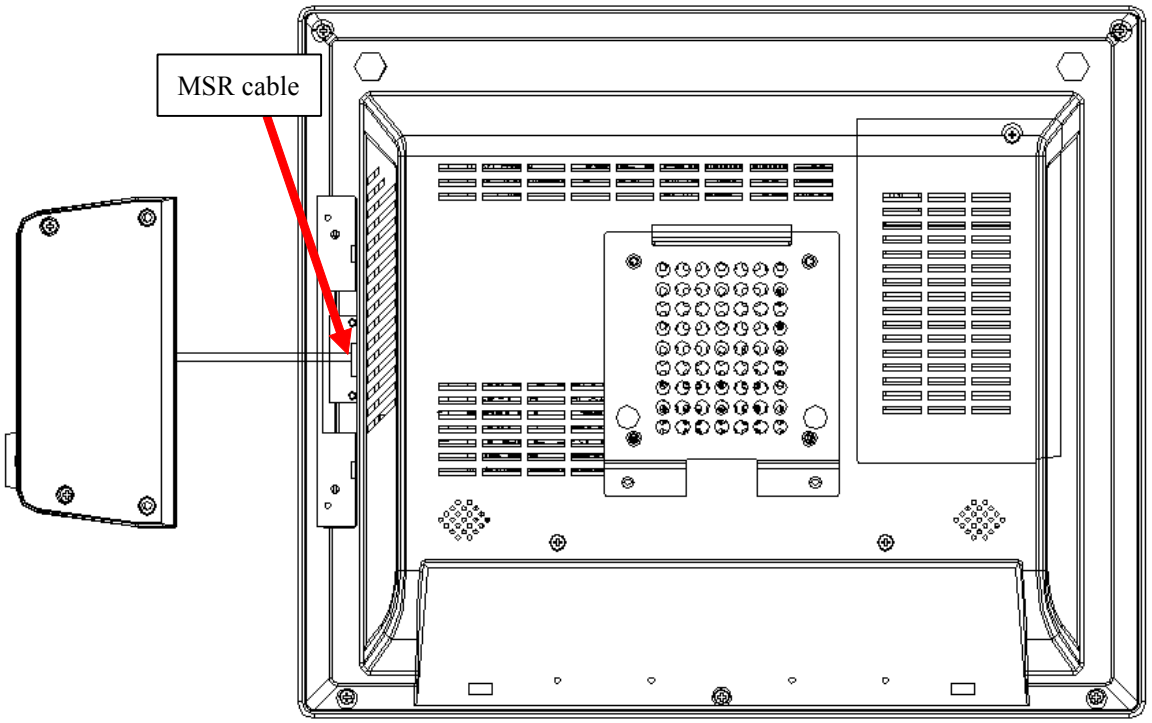
3.3MSR Replacement

S

tep1: unscrew the screw

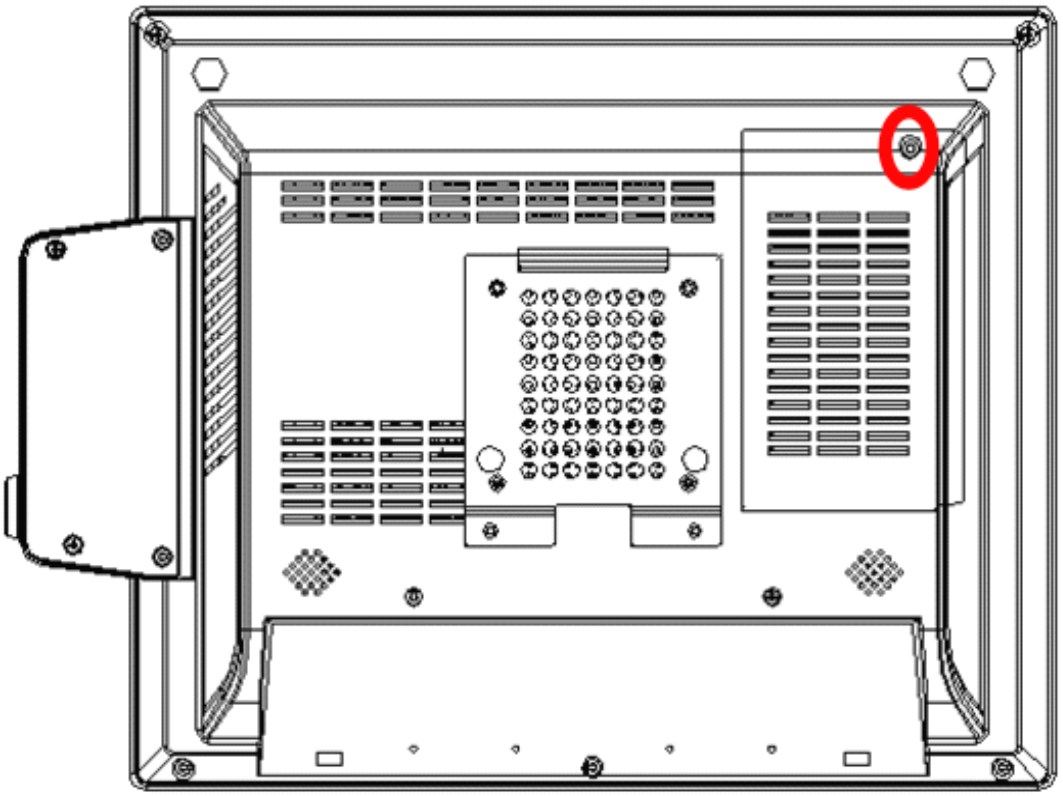


Step2：unplug the MSR cable, then Replacement the MSR



3.4 HDD Replacement

Step1: unscrew the screw



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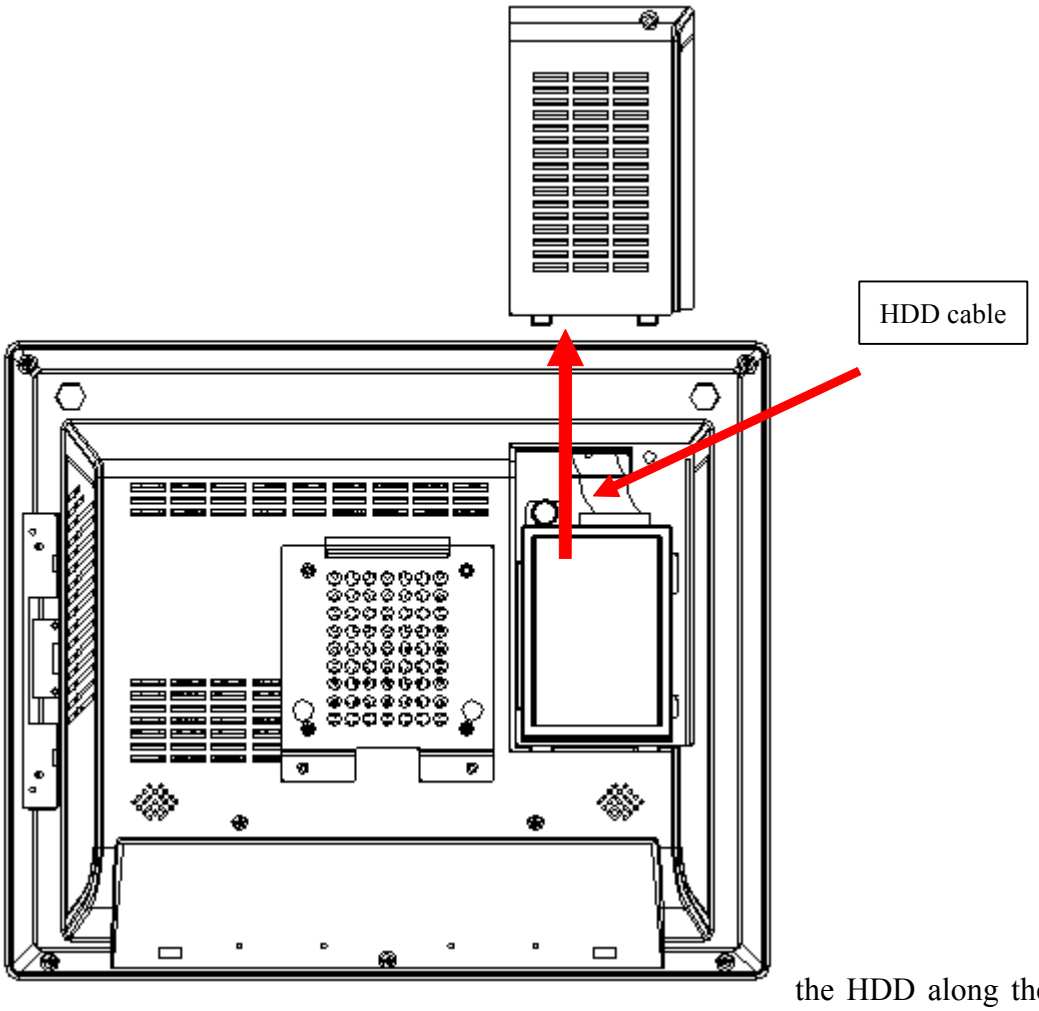
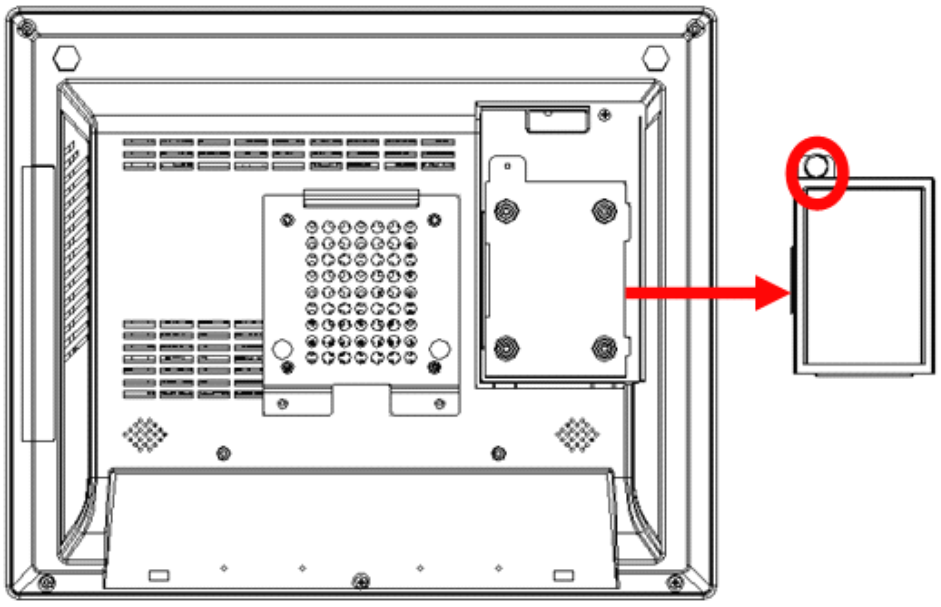
Step2: remove the HDD cover along the arrow

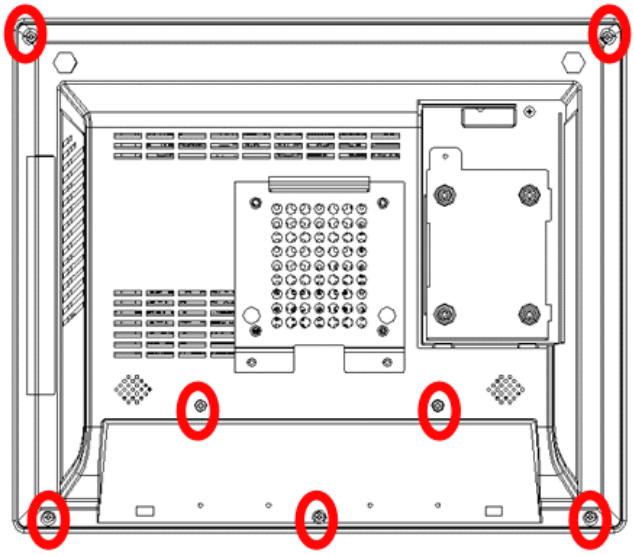


Step3: unscrew the hand screw, unplug the HDD cable, then remove the HDD along the arrow

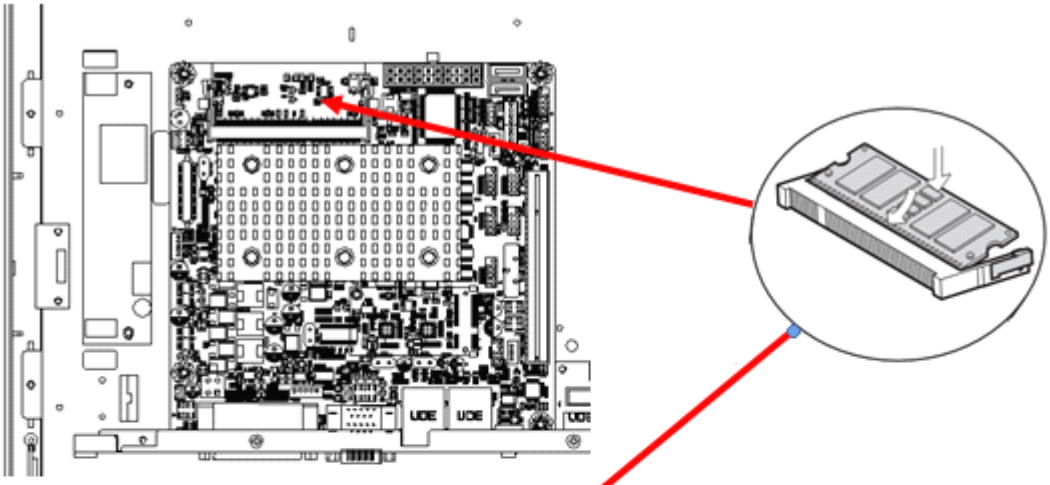


3.5Memory Replacement

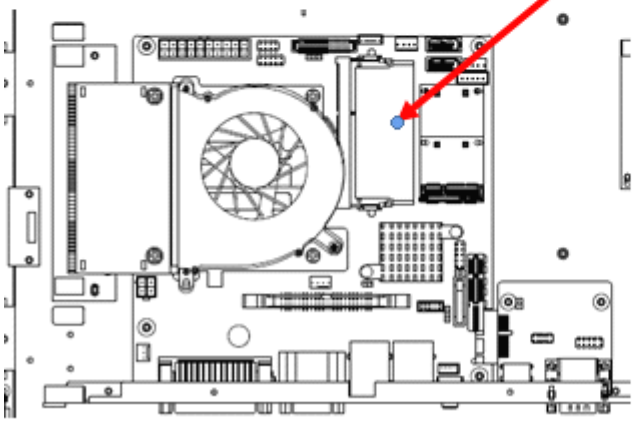
Step1: unscrew the seven screw



Step2: remove the memory as shown.



D525



H61

4 Specifications

4.1 HK900A Specifications (D525)

Item		Description
CPU Support	Socket Type	FCB GA8 package
	CPU Type	DC（D525）
Memory	Socket type	1*204Pin SO-DIMM Socket
	Memory type	DDR3 667/800MHz；1G ，Up to 4GB
Peripherals	RJ11 connector	Cash Drawer Connector，12V supported
	PCIE	1*MINI PCIE
	SATA	2*SATA Port，SATA power port
	LAN1	10/100/1000M
	LAN2	10/100M
	LPT	1*Standard LPT Port
	COM	6*COM, COM3-4 support 5V/12V/RI setting
	USB Port	9*USB，6 I/O interface，3 port header
	LVDS Port	1*LVDS Port（24BIT）
	VGA Port	1*DB15 VGA Port+ 1 Header 2*5pin
	PS/2	1*PS/2 connector（K/B）
	HDD	2.5 inch 250G SATA hard disk driver
	LCD SIZE	15” TFT LCD
	Touch screen type	5 wire resistive
	MSR	3 tracks MSR/I-button/IC smart card/RFID card
	Consumer display	7” or 15” TFT LCD
Environment	Operation temperature	0~40℃
	POWER	+12V DC INPUT

4.2 HK900B Specifications (H61)

Item		Description
CPU support	CPU Type	Socket LGA1155 support intel 2&3 core i7/i5/i3 pentium/Celeron CPU
Memory	Socket type	1*204Pin SO-DIMM Socket
	Memory type	Support DDRIII 1066/1333/1600MHz memory，up to 8GB
Peripherals	RJ11 connector	Cash Drawer Connector，12V supported
	PCIE	1*MINI PCIE
	SATA	2*SATA Port，SATA power port
	LAN	10/100/1000M
	LPT	1*Standard LPT Port
	USB Port	4*USB，1*USB pin
	LVDS Port	1*LVDS Port（24BIT）
	VGA Port	1*DB15 VGA Port+ 1 Header 2*5pin

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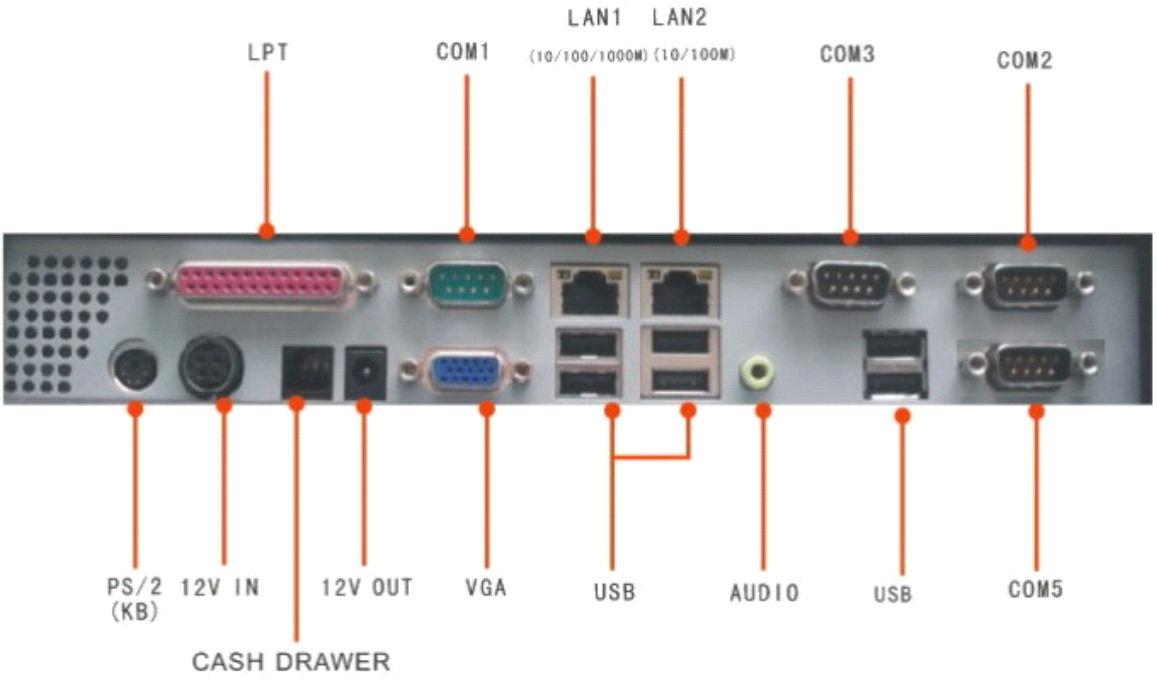
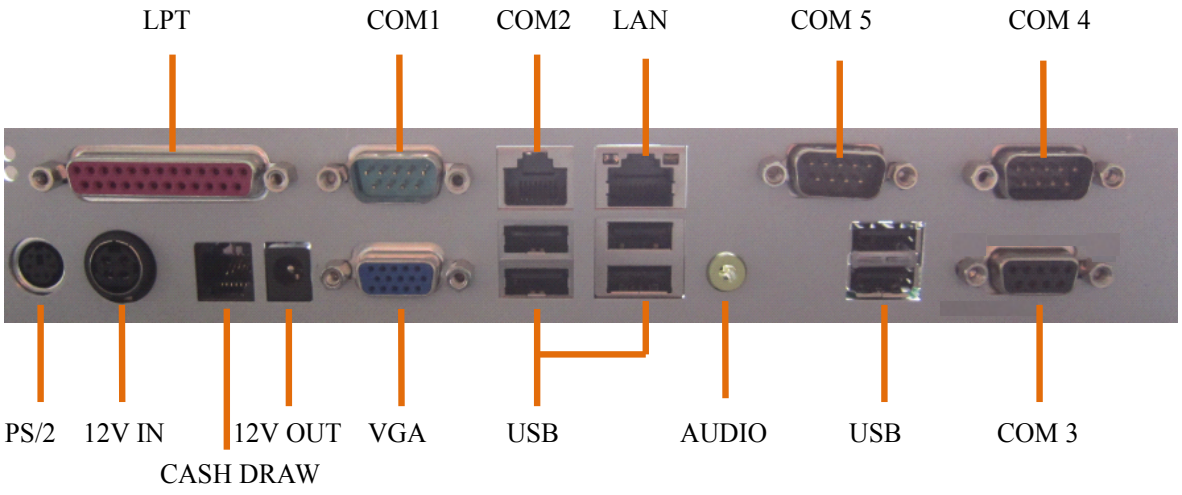
	I/O expand port	1*I/O expand port
	PS/2	1*PS/2 connector（K/B）
	HDD	2.5 inch 250G SATA hard disk driver
	LCD SIZE	15” TFT LCD
	Touch screen type	5 wire resistive
	MSR	3 tracks MSR/I-button/IC smart card/RFID card
	Consumer display	7” or 15” TFT LCD
Environment	Operation temperature	0~40℃
	POWER	+12V DC INPUT

5 I/O Ports

5.1HK900A I/O Ports



5.2HK900B I/O Ports



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AppendixA: Drivers Installation

The shipping package includes a Driver CD in which you can find every individual driver and utility that enables you to install the drivers on the system.

After install the operation system successfully, please insert the Driver CD into the drive and install the driver:

HK900A (D525) need to install the “Chipset”, “VGA”, “Audio”. “LAN” driver.

HK91XA (H61) need to install the “Framework”, “DirectX9C”, “INF”, “Graphics”, “ME”, “Audio”, “LAN” driver.

Appendix B. sample C++ cash drawer code for DOS：

```
// Borland C++3.1 + DOS6.22



//HS-525TD
const int BASE_HS-525TD = 0x1180;

#ifndef byte
 #define byte unsigned char
#endif
#ifndef Sleep
 #define Sleep(x) delay(x)
#endif


//Initialization（Initialized when the program starts, do not always need to initialize）
void InitHS-525TD(void)
{
 byte by = inportb(BASE_HS-525TD + 0x01);

 by = by | 0x60;                          //bit5,bit6
 outportb( BASE_HS-525TD + 0x01, by);

 by = inportb(BASE_HS-525TD + 0x05);

 by = by | 0x20;    //bit 5 input
 by = by & 0xBF;    //bit 6 output

 outportb( BASE_HS-525TD + 0x05, by);
}

//OpenDrawer
int OpenDrawer()
{
 byte by = inportb(BASE_HS-525TD + 0x0D);
```


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```
 by = by & 0xBF;
 outportb( BASE_HS-525TD + 0x0D, by);    //bit6

 Sleep(200);
 by = inportb(BASE_HS-525TD + 0x0D);
 by = by | 0x40;

 outportb( BASE_HS-525TD + 0x0D, by);

 return 1;
}

//CheckDrawerStatus 1:close ； 0:open;
int CheckDrawerStatus()
{
     byte by = inportb(BASE_HS-525TD + 0x0D);      //bit 5
     if( by & 0x20 )
 iRes = 1;
   else iRes = 0;

}
```

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